## **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

TDK Corporation IRB02A 300X300X1

For any questions, you can email us directly: sales@integrated-circuit.com

### **Distributor of TDK Corporation: Excellent Integrated System Limited**

Datasheet of IRB02A 300X300X1 - SHEET FERRITE 300X300MM

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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# Noise Suppression Sheets/Magnetic Sheets/Radio Wave Absorbers Flexield®

## FOR NOISE SUPPRESSION IRL, IRJ, IVM, IRB, IRE MATERIALS

Flexield® is an absorptive electromagnetic shielding material consisting of magnetic material and resin. It suppresses noise radiated from electronic equipment over a wide range of frequencies, offers flexibility in fabrication and delivers particularly excellent performance in high frequency ranges. Flexield® is the ideal sheet-type noise reduction product for mobile devices including notebook PCs, digital cameras and cell phones.



#### **FEATURES**

- They are flexible(Will not crack).
- · They are suited for thin and compact devices.
- · Available in a wide range of dimensions and shapes.
- The products in the line-up support a wide range of frequency bands (50MHz to 30GHz).
- Excellent performance at high frequencies (≥ 300MHz).
- Environmentally products(All products: Lead-free) are also available.
- Product Conforming to RoHS Directive

#### **APPLICATIONS**

- Electromagnetic noise reduction for electric equipment (especially for mobile equipment)
   Internal EMI, resonance reduction(mounting inside a shielded box)
  - RF-block
  - Amplifier

Radiated noise reduction(Circuit, IC, flat cable)

Surface current suppression

- · Improvement of noise immunity
- SAR reduction for mobile phone
- Electrostatic discharge countermeasure
- Improved antenna reception sensitivity.

#### PRODUCT IDENTIFICATIONS

IRL02	Α	Н	300	Χ	300	Χ	2
(1)	(2)	(3)	(4)	_	(5)	_	(6)

- (1) Material name
- (2) A denotes: Both adhesive taped products

A: Standard type AB: Thin type

- (3) H denotes: Half-cutting products
- (4) Length(300: 300mm) (5) Width(300: 300mm) (6) Thickness(2: 2mm)

SPECIFICATIONS					(NEW)		<b>NEW</b>		
Type(Features/Application)	High p	performar	nce • Wide I			neability	Super high permeability		
Material name	IRL02			IRL03	IRL04		IRL05		
Recommended frequency range	100MI	Hz to 100	GHz	100MHz	to 10GHz	50MHz to 10GHz		30MHz to 10GHz	
Operating temperature range (°C)	-40 to	+85		-40 to +8	35	-40 to +85		-40 to +85	
Initial permeability µi [at10MHz]min.	20			20		30		60	
Resistivity (Ω/square) min.	1M			1M		10k		1G (The magnetic layer/10)	
Thermal conductivity(W/m • k)	1.4			1.4			1.6		
Standard sheet dimensions (mm)	200×2	200	300×200	300×200		300×200		300×200	
Standard sheet thickness (mm)	1	2	0.05	0.25	0.5	0.25	0.5	0.1	
Standard sheet weight (g)	100	200	10	50	100	50	100	25	
Density (g/cm <sup>3</sup> )	3.2		2.5	3.4	•	3.3 3.7		3.7	
Flame retardant	_			_		(Also available for UL94 approved products.)		_	
Environment		Halogen- rmity to F ive		Lead free Conformi Directive	ty to RoHS		Lead/Halogen-free Conformity to RoHS Directive  Halogen-free Conformity to F		

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.



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## **公TDK**

#### **SPECIFICATIONS**

Type(Features/Application)	High-resisting	High resistance/Unflammable		
Material name	IRJ01	IVM05	IVM06	
Recommended frequency range	100MHz to 10GHz	100MHz to 3GHz	100MHz to 3GHz	
Operating temperature range (°C)	-40 to +125	-40 to +85	-40 to +85	
Initial permeability µi [at10MHz]min.	18	7	12	
Resistivity (Ω/square) min.	1M	1G	1G	
Thermal conductivity(W/m • k)	1.0	1.2	1.3	
Standard sheet dimensions (mm)	250×250	300×200	300×200	
Standard sheet thickness (mm)	0.5	0.4	0.4	
Standard sheet weight (g)	85	80	80	
Density (g/cm <sup>3</sup> )	2.5	3.3	3.3	
Flame retardant	UL94V-1	UL94V-0	UL94V-0	
Environment	Lead/Halogen-free Conformity to RoHS Directive	Lead/Halogen-free Conformity to RoHS Directive	Lead free Conformity to RoHS Directive	

					*				
Type(Features/Application)	For quasi-microwave band				For GHz				
Material name	IRB02			IRE02					
Recommended frequency range	500MHz to 5GHz				3 to 30G	3 to 30GHz			
Operating temperature range (°C)	-40 to +70				-40 to +	-40 to +85			
Initial permeability µi [at10MHz]min.	6			4					
Resistivity (Ω/square) min.	1M				1M				
Thermal conductivity(W/m • k)	1.2			0.8					
Standard sheet dimensions (mm)	300×300			300×300					
Standard sheet thickness (mm)	1	2	3	6	1	2	3		
Standard sheet weight (g)	300	600	900	1800	250	500	750		
Density (g/cm <sup>3</sup> )	3.3				3.75				
Flame retardant	_				_				
Environment	Lead/Halogen-free Conformity to RoHS Directive Lead/Halogen-free Conformity to RoHS Directive				Directive				